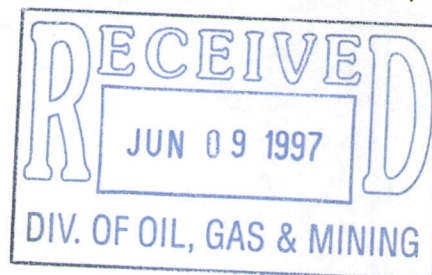


History of JMC Efforts for a New Heap Site PermitJune 3, 1997DWQ Letter DatesSUBJECT

6/3/97	Phonecall by E. Lawton regarding conveyance leak detection system, and Discussion of latest guidance dated February 20, 1997.
1/8/97	Semi-final comments for a CONSTRUCTION PERMIT.
1/17/96	Design comments
9/27/94	Current BMP's for leaching projects.
9/20/93	Transmittal of example specifications.
1991-3	Period of extensive effort by JMC and consultants to obtain a permit

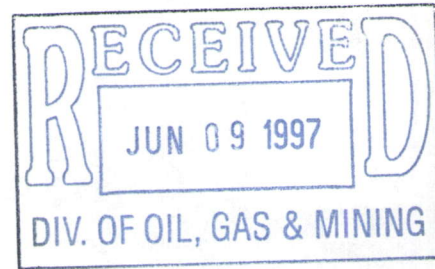
-- D.A.R.

Received via e-mail (From Dave Rupp)



M/027/007

Received via e-mail (from Dave Rupp)



January 8, 1997

Evert Lawton, Ph.D., P.E.
Consulting Geotechnical Engineer
6811 Nye Drive
Salt Lake City, UT 84121

Subject: Jumbo Mining Company, Heap Pad Design

Dear Dr. Lawton:

We have reviewed your letter of October 15, 1996. It appears that the proposed revisions to the drawings are generally consistent with our comment letter of January 17, 1996. We have the following comments:

The peripheral liner should be at least 1-foot horizontally into the ore heap, not the ore cushion. In the membrane liner anchor trenches, a horizontal leg of the membrane should also be buried in the trench. On Sheet 7, Section E you may wish to show the fusion weld location for clarity.

We remind you that a ground water permit will be required to operate the new heap and upgraded ponds. Please review the above comments, and include them with your plans and specifications in response to our previous letters. If you have any questions, feel free to contact me.

Sincerely,

David A. Rupp, P.E.
Design Evaluation Section

cc: Mr. Ed King, Jumbo Mining Company

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FILE:Jumbo Mining Company